

Publication

**EP 0520400 A3 19950222**

Application

**EP 92110622 A 19920624**

Priority

SE 9101966 A 19910626

Abstract (en)

[origin: EP0520400A2] A method for extracting, after data collection (DC) of a sampled analog signal ( $x(k)$ ), a logical description of the analog signal by identification of the state ( $A, \phi$ ) of the signal, that is, the amplitude and phase of the signal, as well as an event ( $\Delta A, \Delta \phi, k=h$ ) which causes a change of a state at a sample  $k=h$ . The identification (SE) is performed with the aid of a truncated general Fourier series and an exponentially decreasing continuous value. The identified parameters are supplied as input data to an expert system (ES) for forming the basis of a superordinate fault analysis together with binary data originating from other signals, the result thereof then being readable on a user interface (UI).  
<IMAGE>

IPC 1-7

**G06F 15/20**; **G01R 31/00**

IPC 8 full level

**G06F 17/00** (2006.01); **G06K 9/00** (2006.01)

CPC (source: EP US)

**G06F 18/00** (2023.01 - EP US); **G06F 2218/08** (2023.01 - EP US)

Citation (search report)

- [DA] SALO: "Expert system for the analysis of disturbances", SYMPOSIUM ON EXPERT SYSTEMS APPLICATION TO POWER SYSTEMS, August 1988 (1988-08-01), STOCKHOLM-HELSINKI, pages 16.7 - 16.13
- [A] ANDRE: "Advanced alarm processing and automatic diagnostics of digital/analog systems", PROCEEDINGS OF THE IASTED INTERNATIONAL SYMPOSIUM ON HIGH TECHNOLOGY IN THE POWER INDUSTRY, August 1986 (1986-08-01), MONTANA US, pages 195 - 199
- [A] DASH ET AL: "Spectral observation of power network signals for digital signal processing", MICROPROCESSORS AND MICROSYSTEMS, vol. 8, no. 9, November 1984 (1984-11-01), LONDON GB, pages 475 - 480, XP000718954, DOI: doi:10.1016/0141-9331(84)90502-7

Designated contracting state (EPC)

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DOCDB simple family (publication)

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**EP 92110622 A 19920624**; CA 2072403 A 19920625; DE 69231372 T 19920624; SE 9101966 A 19910626; US 90123392 A 19920619